

Appl. No. 10/085,919

Amdt. dated November 22, 2004

Reply to Office action of July 21, 2004

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended). A program-controlled unit, comprising:

a plurality of elements configured to selectively change a state thereof during program execution and to be connected to form one or more scan chains; and

wherein the program-controlled unit, in response to a predetermined event detected during program execution, ~~the program-controlled unit can~~ is configured to change into a state in which selected ones or all of said plurality of elements are no longer able to change a the state thereof , to subsequently connect the selected ones or all of said plurality of elements to one of more scan chains, and to read a content of the scan chains.

Claim 2 (currently amended). The program-controlled unit according to claim 1, ~~wherein~~ which comprises an On-Chip Debug Support unit configured to monitor for the occurrence of the predetermined event.

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Claim 3 (original). The program-controlled unit according to claim 1, which comprises a clock generator for supplying respective units of the program-controlled unit with clock signals, and wherein the program-controlled unit is changed to a state in which selected ones or all of said elements that can be connected to form scan chains can no longer change their state by deactivating said clock generator.

Claim 4 (original). The program-controlled unit according to claim 1, which comprises an interface suitable for at least one of configuring and controlling parts of the program-controlled unit provided for identifying and/or analyzing errors that have occurred in the program-controlled unit from outside the program-controlled unit.

Claim 5 (original). The program-controlled unit according to claim 4, wherein said interface is configured for setting the predetermined event and a reaction of the program-controlled unit to the occurrence of the predetermined event.

Claim 6 (original). The program-controlled unit according to claim 4, wherein said interface is configured to prompt for connection of said elements to form a scan chain, and also to read from and write to the scan chain.

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Claim 7 (original). The program-controlled unit according to claim 4, wherein said interface is configured to effect a connection of said elements to form a scan chain, and also to read from and write to the scan chain.

Claim 8 (currently amended). In an error determination method in a program-controlled unit using scan chains with a plurality of elements, which comprises freezing the elements and reading the scan chains after a predetermined event has occurred during execution of a program by the program-controlled unit, and subsequently identifying and analyzing an error in the program-controlled unit from a result of the reading step.

Claim 9 - canceled.

Claim 10 (original). The method according to claim 8, which further comprises, in response to the occurrence of the predetermined event, changing the program-controlled unit over to a state in which selected ones or all elements that can be connected to form scan chains can no longer change their state.

Claim 11 (original). The method according to claim 8, which comprises reading data obtained upon reading the scan chains

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and comparing the data with data obtained when the scan chains
in an error-free program-controlled unit are read under
comparable conditions.

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